# Color Video Camera AW-E560

# **Operating Instructions**



Panasonic®

Before attempting to connect or operate this product, please read these instructions completely.





### CAUTION:

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE.

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



SA 1965

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

# Warning:

This equipment generates and uses radio frequency energy and if not installed and used properly, i.e., in strict accordance with the instruction manual, may cause harmful interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment.

----- For U.S.A.--

For CANADA

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

The serial number of this product may be found on the bottom of the unit.

You should note the serial number of this unit in the space provided and retain this book as a permanent record of your purchase to aid identification in the event of theft.

Model No.	AW-E560
Serial No.	

#### WARNING:

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

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# **PREFACE**

The Panasonic AW-E560 is a digital signal processing color video camera that incorporates three 1/2" CCDs. A digital video signal processing system is packed in a compact, lightweight body while assuring high picture quality, high reliability and high performance.

System setup and adjustments can be easily performed by setup menu.

Connection to peripheral devices, such as an RCU and an RCB, enables a wide variation of system configurations. The lens and the camera pan/tilt unit can be remote controlled when the camera is connected to an RCU with optional multiplex adaptor WV-PS550.

Connection to an RCU for camera control and power supply can be simply done with a coaxial cable through an optional adaptor.

# **FEATURES**

- Digital video signal processing for high quality, high reliability, high performance, lightweight and compact size.
- Resolution: 800 lines (HIGH BAND DTL : ON), S/N ratio: 62dB
- 3. Minimum illumination: 5 lux (F1.4, +18dB)
- 4. SET UP menu for system check and readjustments.
- Built-in automatic controls, including ATW, ELC, and AGC
- CCD readout is switchable between field and frame modes. Vertical resolution can be stepped up in frame mode and it is effective for shooting still objects.
- 7. Any of R/G/B, Y/C, Y/PB/PR and composite can be selected as an output signal.
- Thanks to the built-in synchronized scanning system, noiseless pictures are available from computer graphics.
- 9. Various correction circuits permit video reproduction with highest fidelity.
- Chroma aperture correction enables clear shots of dark color objects.
- 11. 2 Dimensional lowpass filter reduces spurious signals.
- 12. A dark detail circuit provides natural edge correction to any object in a dark scene.

- 13. A digital highlight compression circuit reproduces natural dynamic ranges.
- A digital color matrix enables high fidelity color images.
- 15. The optimum operation mode for each of your specific applications can be selected.
- The scene file automatically sets up the most appropriate shooting conditions.
- System setup parameters, such as SMPTE/full color bar, date and time are indicated on the monitor screen.
- 18. Remote control with an RCU or RCB.

# SPECIAL NOTES ON OPERATION

- Turn power off before connecting or disconnecting cables.
- Connection or disconnection of any studio cable, RCB cable or other cable to any unit of equipment must be performed while power is off.
- While the camera is automatic mode; Shooting of bright objects in ELC operation mode may result in a smeared picture unique to the CCD. The ATW function under fluorescent illumination can adversely change the white balance.

# **PRECAUTIONS**

# **DONT'S**

- Do not attempt to disassemble the camera, Remote Control Unit (RCU) or other units. In order to prevent electric shock, do not remove screws or covers. There are no user-serviceable parts inside.
- Do not abuse the camera. Avoid striking, shaking, etc. The camera contains sensitive components which could be damaged by improper handling or storage.
- Do not let the lens remain uncapped when the camera is not in use. If the lens is not installed, do not leave the lens mount hole uncovered.
- Do not touch the surface of the lens or prism with your fingers.
- Do not use strong of abrasive detergents when cleaning the camera body.

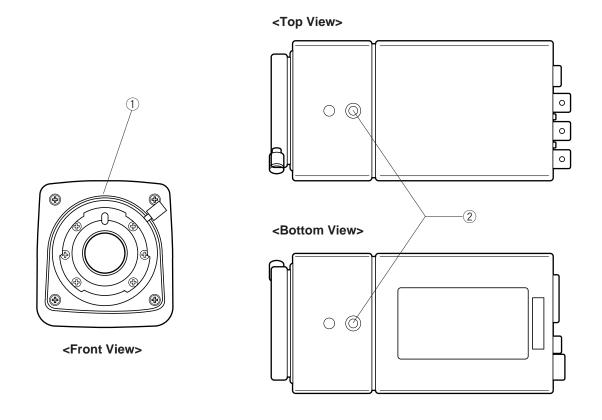
# DO'S

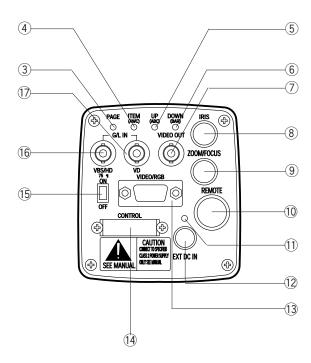
- Do refer any servicing to qualified service personnel.
- · Do handle the camera with care.
- Do protect the precision made lens by placing the lens cap over the lens when the camera is not in use.
   If the lens is not installed, protect the surface of the prism by placing the body cap into the lens mount hole.
- Do use a mild blower or lens cleaning tissue designed for coated lenses, to clean the surface of the lens or prism in the event that it should become dirty.
- Do use a dry cloth to clean the camera if it is dirty. In case the dirt is hard to remove, use mild detergent and wipe gently.

- Do not aim the camera toward the sun, no matter whether it is turned on or not.
- Do not expose the camera or Remote Control Unit (RCU) to rain or moisture, and do not try to operate the equipment in wet areas. Do not operate the camera or RCU if it becomes wet.
- Do not operate the camera or Remote Control Unit (RCU) outdoors during a lightning storm.
- Do not use the camera in an extreme environment where high temperatures or high humidity exist.
- Do not leave the camera and Remote Control Unit (RCU) turned on when not in use. Do not unnecessarily turn the camera power on and off repeatedly. Do not block the ventilation slots.

- Do use caution when operating the camera in the vicinity of spot lights or other bright lights, as well as light reflecting objects and surfaces.
- Do take immediate action if ever the camera or RCU should become wet. Turn the power off and have the unit checked by an authorized service facility.
- Do follow normal safety precautions to avoid personal injury.
- Use the camera in an environment where the temperature is within 14°F 113°F (-10°C +45°C), and the relative humidity is within 30% 90%.
- Always turn the power off when the camera is not going to be used. Operate the camera and Remote Control Unit (RCU) only when there is adequate ventilation.

# MAJOR OPERATING CONTROLS AND THEIR FUNCTIONS





# 1. Lens Mount

1/2" standard bayonet type lens or a microscope adaptor can be mounted.

# 2. Mounting Hole

A screw hole (1/4" - 20 UNC) for mounting the camera on a wall, ceiling with a mounting bracket or tripod.

# 3. Page Switch (PAGE)

A menu will appear on the monitor screen when this switch is pressed for around 2 seconds. Pressing the switch advances the menu page.

# 4. Item Switch (ITEM/AWC)

Any of the items shown in the menu can be selected with this switch. When the menu is not displayed or the camera is in shooting mode, the automatic white balance control can be set with this switch

# 5. Up Switch (UP/ABC)

While the menu is displayed, any setting can be brought up to a higher value with this switch. When the menu is not displayed or the camera is in shooting mode, the automatic black balance control can be set with this switch.

# 6. Down Switch (DOWN/BAR)

While the menu is displayed any setting can be brought down to a lower value with this switch. When the menu is not displayed or the camera is in shooting mode, the color bar and the shooting conditions are alternately indicated by pressing the switch.

# 7. Video Output Connector (VIDEO OUT)

A composite video signal is provided at this connector.

# 8. Iris Connector (IRIS)

Input terminal for lens with an iris control function. Some lenses may require an optional lens extension cable for connection.

Pin No.	Signal	Pin No.	Signal
1	Not Used	7	Iris F
2	Not Used	8	Auto/Remote Control
3	GND	9	Not Used
4	Auto/Manual Control	10	Not Used
5	Iris Control	11	Not Used
6	Lens P	12	Not Used

# Iris Connector (IRIS)



<Front View>

# 9. Zoom/Focus Connector (ZOOM/FOCUS)

Input terminal for lens with zoom and focus function that can be remote controlled.

Pin No.	Signal	Pin No.	Signal
1	Not Used	7	Voltage Common
2	Not Used	8	Focus Control
3	GND	9	Zoom Control
4	Not Used	10	Not Used
5	Not Used	11	Lens +V
6	+12 V	12	Lens –V

Zoom/Focus Connector (ZOOM/FOCUS)



<Front View>

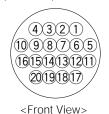
# 10. Remote Connector (REMOTE)

Input terminal dedicated to control signals from the optional Remote Control Box (WV-CB700A) and the Remote Control Unit (WV-RC700A).

- \* WV-CB700A is connected through the optional conversion cable (WV-CA20T10).
- \* WV-RC700A is connected through the optional conversion cable (WV-CA26T20).

Pin No.	Signal	Pin No.	Signal
1	Composite Video Output	11	RCB Transmission
2	GND	12	Control (Command)
3	G/Y/Y Output	13	+9.2 V RCB
4	R/PR/C Output	14	DC 12 V Output
5	GND	15	DC 12 V Input
6	RCB Detect	16	DC 12 V Input
7	EXT SUB In	17	RCB Reception
8	B/PB Output	18	GND
9	GND	19	GND
10	G/L Input	20	Not used

Remote Connector (REMOTE)



# 11. Power Indicator

Red LED lamp lights to indicate that the specified DC power is supplied to the camera.

# 12. DC Input Connector (EXT DC IN)

12 V DC is supplied through the 4-pin connector provided with the camera.

Pin No.	Signal	
1	+12 V In	
2	+12 V In	
3	Ground	
4	Ground	

DC Input Connector (EXT DC IN)



<Front View>

# 13. Video/RGB Output Connector (VIDEO/RGB)

Composite/Y signal, RGB/Y-C/component signal and synchronizing signal are output from this connector.

\* Refer to Page 41 for signal selection. The optional cable WV-CA9T5 or WV-CA9T9 must be used for connection to this connector.

Pin No.	Signal	Pin No.	Signal
1	GND	6	SY/COMP
2	GND	7	SYNC
3	R/PR/C	8	GND
4	G/Y/Y	9	C/NC
5	B/PB/NC		

Video/RGB Output Connector (VIDEO/RGB)



<Front View>

# 14. Control Connector (CONTROL)

Control signals for a pan/tilt unit come to this connector when a pan/tilt unit controller is connected to the camera through the Remote Control Unit WV-RC700A with a multicable.

The multiplex adaptor WV-PS550 is connected to this connector when using a coaxial multiplex system. The WV-RC700A and WV-PS550 can be connected with a coaxial cable.

Pin No.	Signal	Pin No.	Signal
1	Composite Video Output	15	Defroster Control Output
2	GND	16	Wiper Control Output
3	Not Used	17	Common
4	Not Used	18	+5.2 V Output
5	G/L Input	19	GND
6	GND	20	–5.2 V Output
7	WV-PS550 Detect	21	GND
8	PS Transmission	22	GND
9	PS Reception	23	DC 12 V Input
10	GND	24	DC 12 V Input
11	UP Control Output	25	Not Used
12	Down Control Output	26	+9.2 V Output
13	Left Control Output	27	GND
14	Right Control Output	28	GND

Control Connector (CONTROL)



<Front View>

# 15. G/L Signal 75-ohm ON/OFF Switch (75Ω ON/OFF)

A terminating switch for G/L signals at Items 16 and 17.

# 16. G/L VBS/HD Input Connector (G/L IN - VBS/HD)

Signals synchronized with the reference signal are to be supplied to this connector when the camera is to be synchronized with the reference signal. VBS/BB, VS and HD signals are to be automatically determined.

# 17. G/L VD Input Connector (G/L IN - VD)

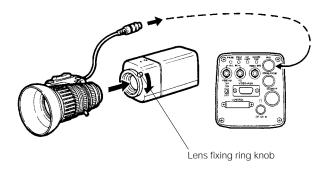
Same as Item 16 except that VD signal is to be supplied when input signal at Item 16 is HD.

# LENS MOUNTING

Lenses of any make can be mounted on the camera as long as they are equipped with a 1/2" standard bayonet.

# 1. Mounting

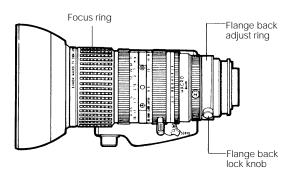
Rotate the lens fixing ring knob counterclockwise and remove the lens mount cap. Mount the lens on the camera and rotate the lens fixing ring knob clockwise in order to fix the lens securely. Then connect the lens cable to the IRIS Connector on the back panel of the camera.



\* Use the lens extension cable WV-CA12T12 (6"/15cm) if your lens cable is too short.

# FLANGE BACK ADJUSTMENT

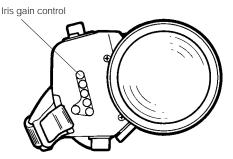
- 1. Fully open the iris by shooting a dark object. (Iris selection switch should be set to M.)
- 2. Loosen the flange back lock knob.
- 3. Aim the camera at any object over 2 meters away from the camera.
- 4. Set the lens to its TELE end first and adjust its focus with the focus ring.
- 5. Set the lens to its widest angle next and adjust its focus with the flange back adjust ring.
- Adjust the focus ring and the flange back adjust ring alternately for the best focus within the zooming range.
  - Tighten the flange back lock knob upon completion of focusing.
- 7. Turn the iris selection switch to Position A.
- \* The figure represents Lens PH15X7BKRS2U.



# IRIS GAIN CONTROL IN A LENS

An iris gain control hole is usually provided in the front of a lens. Adjustment of the iris gain, with a screwdriver through the hole may be done as follows. (Shape and location of the hole may vary depending on the lens make.)

- 1 Turn the iris selection switch to Position A (AUTO).
- 2 Rotate the iris gain control to the maximum gain but in a range where no hunting or oscillating of the iris ring develops.
- \* The figure represents Lens PH15X7BKRS2U.



Automatic iris power zoom lens

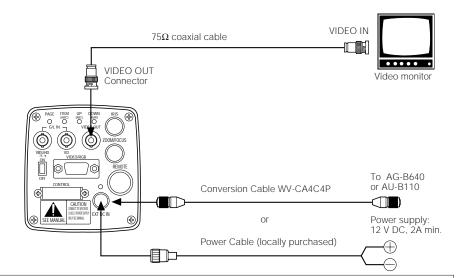
# **CONNECTIONS**

# Caution:

The connection and installation should be done by qualified service personnel or system installers. Refer any servicing to qualified service personnel.

# ■ CONNECTION OF DEVICE WITH A COMPOSITE INPUT CONNECTOR

- Connection to any device which has a composite input connector, such as a video monitor or a VCR, must be made through the VIDEO OUT Connector.
- Power supply to the camera must be through the optional Conversion Cable WV-CA4C4P or a power cable assembled with the connector provided with the camera.
- Power source must be able to continuously supply 12 V DC, 2A nominally.



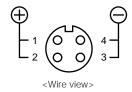
# Cautions -

- 1. Connect this to a 12V DC class 2 power supply only.
- 2. To prevent fire or shock hazard, the UL listed wire VW-1, style 1007 should be used as for the cable for 12V DC Input Connector.

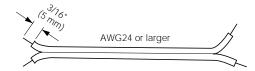
# How to assemble the power cable:

The power cable is to be assembled with the connector provided with the camera.

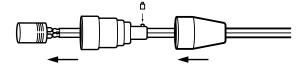
# <Connector pin layout>



1. Prepare the wire.



Fix with a screw if necessary.
 Put the casing and the rubber bushing on after soldering wires to the connector.



# Caution:

To prevent fire or shock hazard, the UL listed wire VW-1, style 1007 should be used as for the cable for 12V DC Input Connector.

# ■ CONNECTION OF DEVICE WITH AN RGB MONITOR OR AN IMAGE PROCESSOR

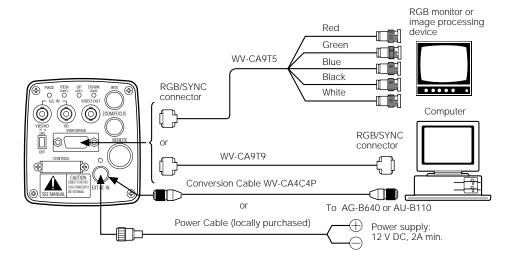
Input signals to an RGB monitor or image processor must be supplied from the VIDEO/RGB connector through the optional D Sub/BNC cable WV-CA9T5 or D Sub/D Sub cable WV-CA9T9.

# WV-CA9T5 Cable Information

Pin No.	Wire's Color	Output Signal
3	Red	R/PR/C
4	Green	G/Y/Y
5	Blue	B/PB
6	White	Y/COMP
7	Black	SYNC

# NOTES:

- Output signals at the VIDEO/RGB connector can be selected from the INITIAL SET menu.
- SYNC level can be selected from the INITIAL SET menu.



# Cautions -

- 1. Connect this to a 12V DC class 2 power supply only.
- 2. To prevent fire or shock hazard, the UL listed wire VW-1, style 1007 should be used as for the cable for 12V DC Input Connector.

# ■ CONNECTION OF A REMOTE CONTROLLER (RCU AND A STUDIO CABLE)

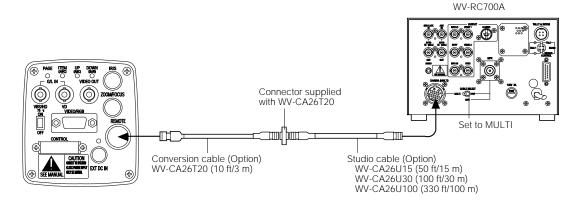
Connection to the RCU (WV-RC700A) is made through the optional conversion cable WV-CA26T20 and a studio cable.

- 1. Turn RCU power off before connecting cables.
- 2. Set the cable selection switch of the RCU to MULTI.
- Connect the 20 pin connector of the conversion cable to the REMOTE Connector of the camera. The conversion cable and the studio cable must be connected with the connector supplied as a standard accessory with the conversion cable.

 Turn RCU power on and the power indicator lamp will light. The camera can now be remote controlled by the RCU.

# NOTES:

- Maximum extension length: 300 meters (Studio cables must be connected with joint adaptor WV-CA26T26.)
- · Use only the specified cables.



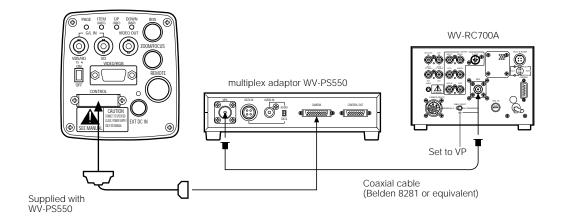
# ■ CONNECTION OF A REMOTE CONTROLLER (RCU AND A COAXIAL MULTIPLEX SYSTEM)

The optional multiplex adaptor WV-PS550 is used for connection of a coaxial multiplex system.

- 1. Turn RCU power off before connecting cables.
- Connect the optional multiplex adaptor WV-PS550 to the control connector of the camera through the standard accessory cable supplied with the WV-PS550.
- 3. Set the cable selection switch of the RCU to VP.
- Connect the MPX connector of the multiplex adaptor and that of the RCU with a coaxial cable (Belden 8281 or equivalent).
- Turn RCU power on and the power indicator lamp will light. The camera can now be remote controlled by the RCU.

# NOTES:

- Use only model WV-RC700A (with WV-CB700A) as an RCU.
- A coaxial multiplex system cannot be used with a studio 26-pin cable.
- R/G/B, Y/C and Y/PR/PB signals cannot be transmitted through this system. Use a studio cable if any of these signals is required.
- The maximum cable extension length allowed for this system is 300 meters.



# ■ CONNECTION OF A REMOTE CONTROL BOX (RCB)

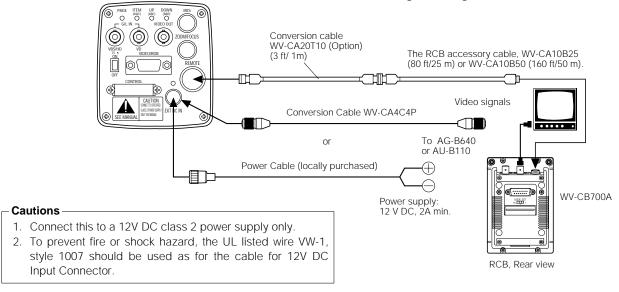
The RCB (WV-CB700A) and the camera must be connected with the optional conversion cable WV-CA20T10.

- 1. Turn RCB power off before connecting cables.
- 2. Connect the 20 pin connector of the conversion cable to REMOTE connector of the camera. The 10-pin connector must be connected to the RCB accessory cable or an optional RCB cable.

3. Turn RCB power on and the camera can be remote controlled by the RCB.

# NOTES:

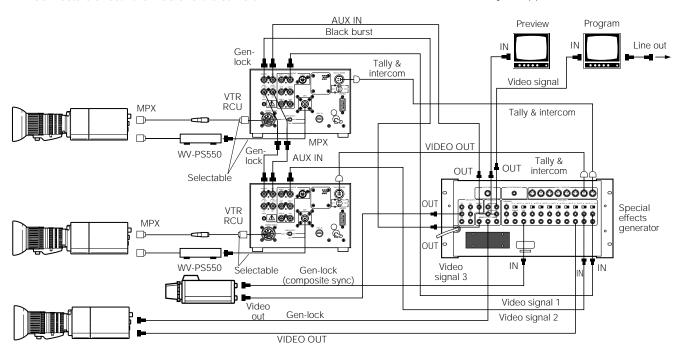
- The monitor output signals of the RCB attenuate and deteriorate with cable length. It is recommended that the signals from the monitor output be used for monitoring purpose only.
- No gen-lock signal is available from the RCB.



# **■ CONNECTION WITH MULTIPLE CAMERAS**

- An example of connection for VBS/BB input (Color lock mode).
  - A special effect generator is used as the source of reference signals.
  - Supply a synchronizing signal (VBS/BB) to the GEN-LOCK Connectors of both the RCU and the camera.
- Adjust the SC phase and H phase at the Program Out Connector.

There are two other modes such as VS input (No color lock mode) and HD/VD input (monochrome mode), which can be selected for your application.

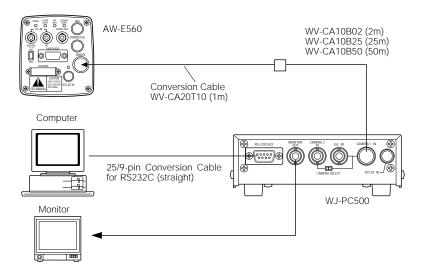


# CONNECTION OF COMPUTER INTERFACE ADAPTOR

The system shown here can remotely control this camera by using the Computer Interface Adaptor WJ-PC500. The software required for this operation should be obtained locally.

Please contact qualified service personnel for this software.

# PC Mode System 1-1



**Note:** The decrement of the video signal from the Monitor Output Connector on this Unit is in proportion to the cable length.

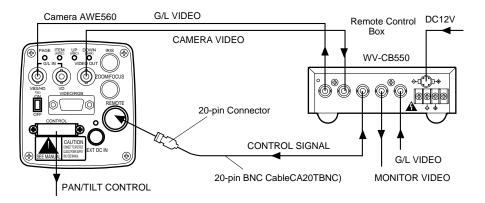
- Connect the WV-CA20T10
   Conversion Cable and WV-CA
   10B02, WV-CA10B25 or WV-CA10B50 10/10-pin Cable
   between the Camera 1 Input
   Connector on the Computer
   Interface Adaptor and Remote
   Connector of this camera.
- Connect the coaxial cable between the Monitor Output Connector on the Computer Interface Adaptor and the video input connector of the monitor.
- Connect the 25/9-pin conversion cable between the RS-232C/422 Connector on the Computer Interface Adaptor and computer.

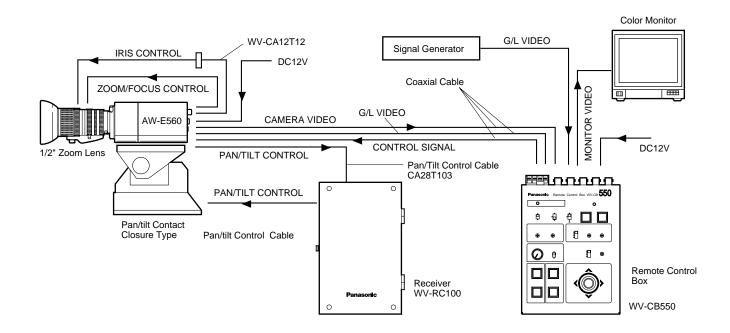
# **■ CONNECTION PROCEDURES FOR CABLE KIT WV-CA28T10**

• The kit WV-CA28T10 has the following two cables in it.

20P-BNC cable CA20TBNC
 Pan/Tilt control cable CA28T103

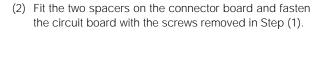
- Connect the camera AW-E560 to the remote control box WV-CB550 with the CA20TBNC coaxial cable.
- Connect the camera AW-E560 to the receiver WV-RC100 with the CA28T103 cable according to the cable connecting instructions.
- Connect the camera AW-E560 to the remote control box WV-CB550 with two coaxial cables (video signal and G/L signal).
   (PSF 1/2M, maximum total length 300 m)
- Use Model AW-E560 for camera. In case of using a pan/tilt head, the receiver WV-RC100 and the pan/tilt head control cable are necessary. Be sure to use a pan/tilt head of contact type (WV-7230D or WV-7225, for example).
- For a detailed description of connecting each device, refer to its instruction manual.
- The devices should be switched on only after their connection.

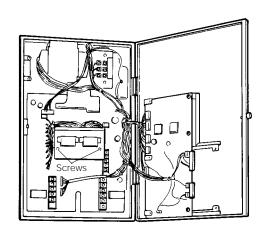


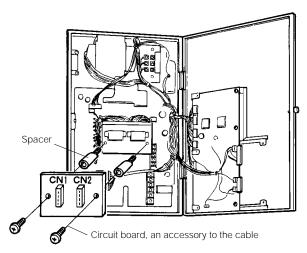


# **■ CA28T103 CONNECTION PROCEDURE**

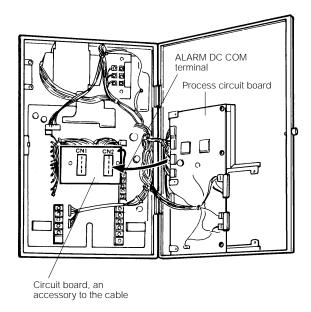
- Connecting Receiver and Control Cable CA28T103
- The control cable CA28T103 is provided with a circuit board and spacers.
- Assemble the circuit board and spacer with the receiver WV-RC100 (WV-RC150), and connect the control cable to that circuit board.
- (1) Remove the two screws on the connector board shown from inside the receiver.



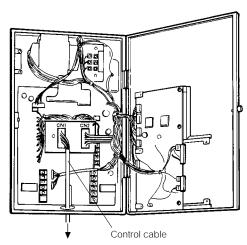




- (3) Disconnect the connector from connector CN4 on the process circuit board, and connect it to connector CN2 on the circuit board mounted. (Cut off or remove the wire band.)
- (4) Connect the lead from the circuit board to the ALARM DC COM terminal.



(5) Connect the control cable CA28T103 to connector CN1 on the circuit board.



Connect the 28-pin end of it to the control terminal on the camera.

# **ADJUSTMENT**

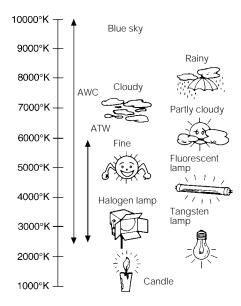
# Color temperature and adjustment of white balance

When carbon is burnt, it develops various colors of light depending on the temperature. Natural light can be specified by color temperature referring to the color developed when carbon is burnt.

The light of 3,200K (K=Kelvin, -273C equals to absolute zero temperature OK) represents the same value (color) as what develops when carbon is burnt at 3,200K (2,927C). The relationship between the color temperature of the light source and weather condition is indicated in the right figure. Let's study the difference of shooting an indoor object from shooting one outdoors. Studio are usually lighted with incandescent lamps and the color temperature of a white object in a studio is around 3,000K. The color temperature of a white object outdoors is around 6,500K. The former may look a little yellowish while the latter appears somewhat bluish when they are shot by a camera. However, human eyes do not recognize the color difference between these objects even under different ambient lighting conditions because of their adaptability to light. The video camera reproduces color differences with high fidelity and the color of an object somewhat different from what appears to the human eyes.

Therefore, there is a need to adjust the white balance in order to correct their differences of color temperature.

**NOTE:** Color temperature outdoors may vary depending on weather conditions.



# ■ AUTOMATIC WHITE BALANCE CONTROL (AWC)

There are two white balance memories, "AWC A" or "AWC B" for two different light sources color temperatures, with the white balance setting. Then, when the two different light sources are encountered, you may properly operate the camera by simply change the white balance mode to either AWC A (A CH) or AWC B (B CH). There is no need to readjust the camera to the ambient conditions.

- \* The preset conditions will be renewed whenever you input new conditions.
- Turn the white balance selection switch to either "AWC A" or "AWC B" of RCU or select the white balance mode either A CH or B CH by SETUP menu.
- Aim the camera at a white object (a white wall or a white handkerchief) and zoom in to enlarge the image as much as possible.

# [ADJUSTMENT by CAMERA]

3. In normal shooting mode:

Press the AWC (Item) switch for over 1 second.

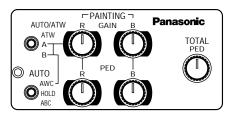
In SETUP menu mode:

Select WHITE BAL and press the page switch for over 1 second.

In either case white balance is automatically set in 2 seconds.

# [ADJUSTMENT WITH THE RCU (RCB)]

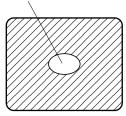
- 4. When the auto white/auto black set switch is turned to AWC, the white balance will be automatically set regardless of camera operation mode. While the system is being set, auto warning indicator (LED) blinks and it goes out when the white balance setting is completed. If the lamp remains lit, setting must be tried again.
- If the painting mode is ON in the page No.1 of the INI-TIAL SET menu white balance fine adjustment can be performed with the red gain/blue gain adjustment control.



# NOTES:

- For white balance setting aim the camera at a
  white object and try to position it in the center of
  the monitor screen. The object must appear in
  over 10% of the total monitor screen area. Try to
  avoid overly bright object in the scene.
- White balance may not be correctly set if the lighting of the object is not strong enough.

The white object must occupy over 10% of the monitor screen area.



- Since the camera has a built-in battery, the set white balance will be kept in the memory even if power is turned off. Therefore, it is not necessary to reset the white balance if the color temperature of those objects remains unchanged. However, it must be reset if the color temperature changes such as when you move from indoors to outside or vice versa.
- When the camera is used without an RCU or RCB red/blue adjustment of painting setting will be automatically reset to its center after setting the white balance.

# ■ AUTOMATIC TRACKING WHITE BALANCE SETTING (ATW)

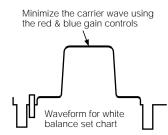
White balance will be automatically set to continuously match changes of light source and color temperature while the white balance setting is set to ATW in the SETUP menu.

**Note:** White balance may not be accurately set if there is no white object in the scene being shot.

#### ■ MANUAL WHITE BALANCE SETTING

- Set the white balance setting to MANU in the SETUP menu.
- 2. Aim the camera at a large white object.
- Adjust the red gain/blue gain control in the page No.1
  of INITIAL SET menu until the carrier wave of the white
  portion of the video signal is at the minimum width or
  the white object in the monitor screen appears pure
  white. (Use an oscilloscope or a waveform monitor for
  precise adjustment.)

**Note:** It cannot be manually adjusted if the camera is controlled by RCU or RCB.



# ■ RESET TO 3200K OR 5600K WHITE BALANCE

When the white balance setting is set to either "P SET 3.2K" or "P SET 5.6K" the white balance will be automatically set to the color temperature 3,200K or 5,600K respectively.

# ■ BLACK BALANCE ADJUSTMENT

[ADJUSTMENT by CAMERA]

Press the ABC (UP) Switch for over 1 second and the black balances for 0dB, 9dB and 18dB will be automatically set in 5 seconds.

If the painting switch is ON in the page No.1 of INITIAL SET menu, black balance fine adjustment can be performed with the red gain/blue gain control.

# [ADJUSTMENT WITH RCU OR RCB]

Set the auto white/auto black set switch to ABC and the black balance will be automatically set regardless of camera mode. While the system is being set, the auto warning indicator (LED) blinks and it goes out when the black balance setting is completed. If the lamp remains lit, ABC should be tried again.

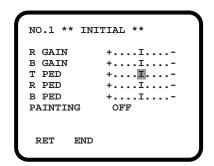
# **■ TOTAL PEDESTAL LEVEL ADJUSTMENT**

(Use an oscilloscope or a waveform monitor for this adjustment.)

# [ADJUSTMENT by CAMERA]

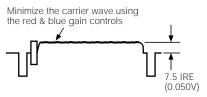
- Select the page No.1 of the INITIAL SET menu on the monitor screen.
- 2. Select "T PED" with the item switch.

Set the pedestal level to 7.5IRE (0.050V) with the Up switch and the Down switch.



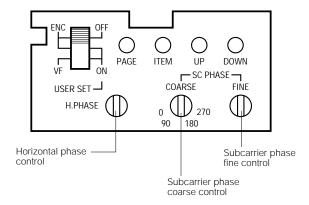
# [ADJUSTMENT WITH RCU (RCB)]

Adjust the total pedestal level to 7.5IRE with the total pedestal adjustment.



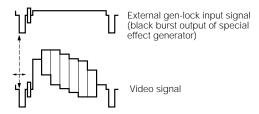
# **■ GEN-LOCK ADJUSTMENT**

Phase adjustments must be performed with the camera or the RCU (RCB) when external synchronizing signals are supplied to the system in cases where multiple cameras are used or peripheral devices are connected.



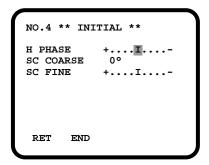
# **■ HORIZONTAL PHASE CONTROL**

Observe the waveform of the external synchronizing input signal (black burst signal) and video output signal on a two-channel oscilloscope. Then match the horizontal phase of both signals by adjusting them with the cameras or RCU's horizontal phase control.



# [ADJUSTMENT by CAMERA]

- Press the BAR (DOWN) switch for over 1 second to display the color bar.
- 2. Select page No.4 of INITIAL SET menu.
- 3. Select "H PHASE" with the item switch.
- 4. Adjust the horizontal phase with the Up switch and Down switch.

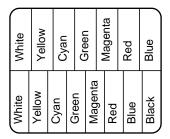


# [ADJUSTMENT WITH RCU (RCB)]

Use the horizontal phase control located in the pocket of RCU (RCB).

# **■ COLOR PHASE ADJUSTMENT**

Supply the output signal (split color bar) from the color special effect generator to a color monitor or vectorscope. Adjust the color phase of the camera with either the camera controls or the RCU (RCB) control.

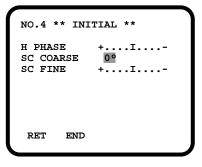


Color bar of camera

Color bar of special effects generator

# [ADJUSTMENT by CAMERA]

- Press the BAR (DOWN) switch for over 1 second for the color bar mode.
- 2. Select page No.4 of INITIAL SET menu.
- Select "SC COARSE" with the item switch. Make coarse adjustment with the Up switch and the Down switch.
- 4. Select "SC FINE" with the item switch. Perform fine adjustment with the Up switch and the Down switch.



# [ADJUSTMENT WITH RCU (RCB)]

Use the subcarrier phase coarse adjustment control and subcarrier phase fine control located in the pocket.

\* It is recommended that a vectorscope be used for maximum accuracy in color phase adjustment.

# **OPERATION MODE SETTING**

# · Operation Mode Setting

The camera has three memories, including the setup memory, initial set memory and scene file memory, and various functions for four operation modes, are preset in the factory.

Functions can be set as best suited to each operation mode.

MODE 1: For shooting mainly indoors

MODE 2: For monitoring indoors and outdoors

MODE 3: For microscopic shooting

MODE 4: For video processing and telop shooting

# Settings

- When power is turned on the camera, the operation mode selection as shown on the right figure appears on the monitor screen.
- 2. One of the operation modes appears blinking and changes each time the item switch is pressed.
- 3. Press the page switch to select the desired mode while it is blinking.

# NOTE:

Please refer SETUP/INITIAL SET AND THEIR INITIAL VALUE TABLE for the details.

CURR: MODE1/SCENE1

MODE1 MODE2 MODE3 MODE4

- The camera is now in scene file set mode and as shown on the right figure on the top appear on the monitor screen.
- 5. One of the scene files appears blinking and changes each time the item switch is pressed.
- 6. Press the page switch to select the desired scene file number while it is blinking.
- 7. Now the mode setting is completed and the new mode will be indicated on the screen for 2 seconds before the camera returns to normal shooting mode.
- \* When the camera is controlled with the RCU (RCB) a scene file is selected by the scene switch on the RCU (RCB) and those figure will not be displayed.

CURR:MODE1/SCENE1
SCENE1
SCENE2
SCENE3
USER A
USER B

CURR: MODE1/SCENE1

# **MENU ITEM SETTING**

# **Setup Item Setting**

# ■ Setup Memory

The AW-E560 has a setup menu memory, which stores data on the states of the individual functions of the camera preset before shipment from the factory.

Camera operating conditions can be set using the setup function.

The camera has a memory for each mode.

# ■ Setup State

Camera alone: Press the page switch for 2 seconds or more.

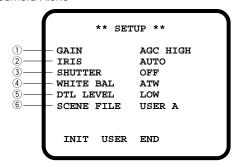
Camera with RCU (RCB): Set the user set switch to ON. When the camera has been placed in the setup state, the SETUP menu is displayed on the monitor.

Setup operations can be performed at the camera head or RCU (RCB).

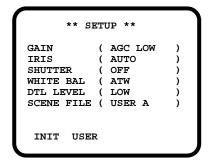
- \* Composite signals are output from the VIDEO output terminal regardless of the position (ENC/VF) of the user set switch on the RCU (RCB).
- \* When the camera is used with an RCU (RCB), those items enclosed in parentheses can be adjusted with the switches and controls on the RCU (RCB). The word END is displayed only when the camera is used alone

# ■ Setup Data Screen

<Camera Alone>



<Camera with RCU (RCB)>



# ① Gain Up Control Setting [GAIN: AGC LOW, AGC HIGH, 0DB, 9DB, 18DB]

When the mode is set to AGC LOW or AGC HIGH, the AGC with a maximum gain increase of about 9 dB/18 dB operates to control gain up and automatically regulate the amount of light.

Normally, the mode should be set to ODB. If a sufficient video output is not obtained in shooting a dark object even when the iris is fully opened, set the mode to the 9DB or 18DB position.

 AGC convergence level, photometric method, and detecting ratio can be set by INITIAL SET menu.

#### Note:

In using the AGC, it may not function when the iris switch is in the manual position on the lens with auto iris ON in the SETUP menu.

# 2 Iris Control Setting [IRIS: MANU, AUTO]

When the mode is set to AUTO, lens iris is controlled automatically with lens iris is A (auto) position.

 Auto iris convergence level, photometric method, and detecting ratio can be set by INITIAL SET menu.

#### Note:

When the iris control is set to AUTO in this menu, set the iris switch on the lens to the A (auto) position. If the iris is set to MANU in this menu, set the iris switch on the lens to the M (manual) position.

# ③ Electronic Shutter Speed Setting [SHUTTER: ELC, OFF, 1/100, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000, SYNCHRO]

When the mode is set to ELC, the electronic shutter speed is automatically controlled to regulate the amount of light.

When the mode is set to OFF, the electronic shutter is turned off. The mode is set to between 1/100 and 1/10000 represent respective shutter speeds.

Set the mode to SYNCHRO (synchro scan) for fine adjustment of shutter speed.

Refer to the table below for the relative light quantity required for each setting of shutter speed and synchro scan.

Shutter Speed	Synchro Scan	Required Light Ratio
OFF		1
1/100	159/525	2
1/250	63/525	4
1/500	31/525	8
1/1000	15/525	16
1/2000	7/525	32
1/4000	3/525	64
1/10000	1/525	160

\* ELC convergence level, photometric method, and detecting ratio can be set by INITIAL SET menu. When the mode is set to SYNCHRO, shutter speed can be set by INITIAL SET menu.

**Note:** If the camera is used with an RCU (RCB), shutter speeds of 1/250, 1/2000, 1/4000, 1/10000 cannot be selected.

When the mode is set to ELC, the electronic shutter may not function if the iris is set to AUTO in the SETUP menu and the lens iris switch to M (manual). Make sure that the camera and lens settings are the same. If ELC is selected, flicker may increase under fluorescent lights.

## White Balance Setting [WHITE BAL: ATW, A CH, B CH, MANU, P SET 3.2K, P SET 5.6K]

When the mode is set to ATW, white balance is automatically adjusted at all times.

When the mode is set to A CH or B CH, with SETUP menu OFF, white balance is automatically adjusted with the AWC switch on the back of the camera. Color temperature conditions of two scenes can be stored in the A CH/B CH memories. When the painting mode is ON, fine color adjustment can be made by red/blue gain setting of INITIAL SET menu after AWC.

When the mode is set to MANU, white balance can be adjusted by red/blue gain setting of INITIAL SET menu.

When the mode is set to P SET 3.2K, white balance is adjusted to 3200K illumination.

When the mode is set to P SET 5.6K, white balance is adjusted to 5600K illumination.

#### Note:

When the camera is used with an RCU (RCB), the switch cannot be set to MANU, P SET 3.2K, or P SET 5.6K.

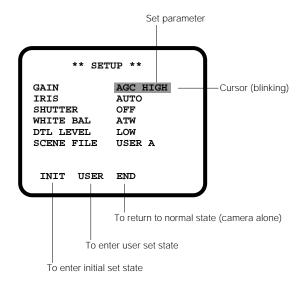
# (5) **Detail Level Setting [DTL LEVEL: OFF, LOW, HIGH]**Use this mode to select any of three detail levels as desired: HIGH, LOW, OFF.

\* Low or high level ranges can be set by using a USER SET menu.

## Scene File Selection Setting [SCENE FILE: 1, 2, 3, USER A, USER B]

```
Mode 1:
    USER A/B -- User set
   SCENE 1:
    SCENE 2:
    SCENE 3:
Mode 2:
   USER A/B -- User set
   SCENE 1:
    SCENE 2:
    SCENE 3:
Mode 3:
    USER A/B -- User set
   SCENE 1:
    SCENE 2:
    SCENE 3:
Mode 4:
    USER A/B -- User set
    SCENE 1:
    SCENE 2:
   SCENE 3:
```

### ■ How to Read Screens



### ■ How to Set

- The cursor (blinking) moves each time the item switch is pressed. The item indicated by the cursor can be reset or its command can be executed.
- (2) Use the Up and Down switches to change settings.
- (3) When the page switch is pressed after moving the cursor to INIT, the INITIAL SET menu will displayed.
- (4) When the page switch is pressed after moving the cursor to USER, the camera is ready for user setting.
- (5) To terminate camera setup, move the cursor to END, and press the page switch.

If the camera is used with an RCU (RCB), set the user set switch to OFF.

The camera will then operate according to the settings.

## **INITIAL SET MENU SETTING**

### **■ Initial Set Memory**

The AW-E560 has an initial set memory, which stores data on the states of the individual functions of the camera preset before shipment from the factory.

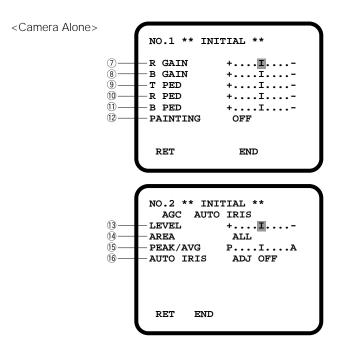
Camera operating conditions can be set using the initial set function.

The camera has a memory for each mode.

#### ■ Initial Set State

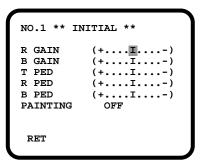
- (1) Display the SETUP menu by pressing the page button.
- (2) Move the cursor to INIT and press the page switch. The camera is initialized and the INITIAL set menu is displayed on the monitor. Setup operation can be performed at the camera head or RCU (RCB).

### ■ Initial Set Screen



- On No. 2 page, the light adjusting function that is now ON is displayed on the second line from the top.
- \* When the camera is used with an RCU (RCB), those items enclosed in parentheses can be adjusted with the switches and controls on the RCU (RCB). The word END is displayed only when the camera is used alone.

<Camera with RCU (RCB)>



```
NO.2 ** INITIAL **

AGC AUTO IRIS ELC

LEVEL +...T...-

AREA ALL

PEAK/AVG P...I...A

AUTO IRIS ADJ OFF
```



## ⑦ Red gain adjustment [R GAIN]

### 8 Blue gain adjustment [B GAIN]

When the white balance setting is set to MANU, white balance can be adjusted by red/blue gain control. Fine adjustment of white balance can also be made after AWC by red/blue gain control when the white balance setting is set to A CH or B CH and the painting mode is ON.

 A memory is provided for each of MANU, A CH, and B CH

If AWC is executed when the camera is used alone, the memories for A CH and B CH return to the center.

### 9 Total Pedestal Adjustment [T PED]

The pedestal of the luminance (Y) signal can be set. It is used to match the pedestals of two or more cameras.

## 10 Red Pedestal Adjustment [R PED]

## 1) Blue Pedestal Adjustment [B PED]

Fine adjustment of black balance can also be made after ABC by red/blue pedestal adjustment when the painting mode is ON.

\* If ABC is executed when the camera is used alone, the value of R/B PED returns to the center.

## 12 Painting Setting [PAINTING: ON/OFF]

If white balance is set to either A CH or B CH when the painting switch is ON, fine adjustment of white balance can be made after AWC by red/blue gain control.

Fine adjustment of black balance after ABC can also be made by red/blue pedestal adjustment.

## (3) AUTO IRIS/AGC/ELC Level Adjustment [LEVEL] Convergence level of AUTO IRIS/AGC/ELC can be adjusted.

## Photometric Measurement Method Setting [AREA: ALL, CENTER, TOP CUT, BOT CUT, R/L CUT]

A photometric measurement method can be selected for AUTO IRIS/AGC/ FLC.

**ALL:** All the screen area is measured.

CENTER: The screen is measured mainly in the cen-

ter area, about one-third each of the top and bottom and one third each of the right and left parts of the screen are cut out from measurement.

**TOP CUT:** About one-third of the top part of the screen is cut out from measurement.

**BOT CUT:** About one-third of the bottom part of the screen is cut out from measurement.

**R/L CUT:** About one-third each of the right and left parts of the screen is cut out from measurement.

ALL	CENTER	TOP CUT
BOT CUT	R/L CUT	

### (5) Detecting Ratio Adjustment [PEAK/AVG]

The ratio of AUTO IRIS/AGC/ELC detected peak to average can be adjusted in a range of 9 steps.

## (6) AUTO IRIS Level Fine Adjustment Setting [AUTO IRIS: ADJ ON/ADJ OFF]

When the mode is set to ADJ ON, fine adjustment of ALC/ AGC/ELC convergence level can be made with the iris VR control on the RCU (RCB) if the camera is used with an RCU (RCB) and the iris mode is set to AUTO in the SETUP menu.

### Synchroscan Adjustment [SYNCHRO-SCAN: 1/525 to 253/ 525]

Shutter speed can be adjusted when the shutter speed mode is set to SYNCHRO in the SETUP menu. In shooting a monitor screen, for example, set the shutter speed mode is set to SYNCHRO and use this item for shutter speed adjustment so that horizontal bar noise will be reduced.

## (8) CCD Read Out Mode Setting [FLD/FRM: FIELD/FRAME]

The position FIELD means CCD field storage. The position FRAME means frame storage, in which case vertical resolution increases.

**FIELD:** Set to this mode when shooting moving object **FRAME:** Set to this mode when shooting still object

\* It is recommended that the mode be normally kept at FIELD because, if the mode is set to FRAME, residual image will increase.

## (9) Gamma Correction ON/OFF Setting [GAMMA: ON, OFF]

Gamma correction ON/OFF can be set.

\* Gamma correction level can be set using a user set menu.

## 2 2-Dimensional Lowpass Filter ON OFF Setting [2D LPF: ON, OFF]

2D lowpass filter ON/OFF can be set to reduce cross colors.

## 2) Color Bar Setting (COLOR BAR: 1, 2, 3, 4]

Color bars can be selected.

- 1: SMPTE color bar with 0.0% setup
- 2: SMPTE color bar with 7.5% setup
- 3: Full color bar with 0.0% setup
- 4: Full color bar with 7.5% setup

### Horizontal Phase Adjustment [H PHASE]

Horizontal phase can be adjusted when a genlock signal is supplied.

## ② Sub Carrier Phase Coarse Adjustment [SC COARSE: 0°, 90°, 180°, 270°]

Coarse adjustment of sub carrier phase can be made when a genlock signal is supplied.

## 24 Sub Carrier Phase Fine Adjustment [SC FINE]

Fine adjustment of sub carrier phase can be made when a genlock signal is supplied.

## ② Output Signal Setting 1 [OUTPUT SEL1: R/G/B, Y/C, Y/PR/PB]

Output signals from the VIDEO/RGB connector or REMOTE connector on the back of the camera can be selected

## Output Signal Setting 2 [OUTPUT SEL2: Y/C, COMPOSITE]

Output signals from the VIDEO/RGB connector on the back of the camera can be selected

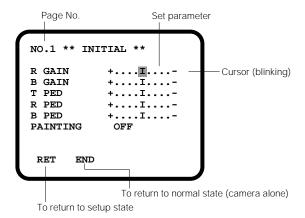
## ② Synchronizing Signal Output Level Setting [SYNC SEL: 0.3 V/4.0 V]

The synchronizing signal output level from the VIDEO/RGB connector on the back of the camera can be selected

## ② Camera ID on/off setting [CAMERA ID : ON/OFF] Used for camera ID setting and camera ID display on the monitor.

## ② Time Date on/off setting [TIME DATE: ON/OFF] Used for time date setting and time date display on the monitor.

#### ■ How to Read Screens



#### ■ How to Set

- (1) The screen changes from one page to another each time the page switch is pressed.
- (2) The cursor (blinking) moves each time the item switch is pressed. The item indicated by the cursor can be reset or its command can be executed.
- (3) Use the Up and Down switches to change settings.
- (4) To return to the SETUP menu state, move the cursor to RET and press the page switch.
- (5) To return to the normal state, take the following steps. If the camera is used alone, move the cursor to END, and press the page switch.

If the camera is used with an RCU (RCB), set the user set switch to OFF.

The camera will then operate according to the settings.

### ■ SETUP/INITIAL Set Memory Reset

The AW-E560 has a reset function, which restores the original settings if the wrong data is set in SETUP or INITIAL SET.

- (1) Switch camera power off, and switch it back on.
- (2) Complete the operation mode/scene file setting and press the page switch. When the new settings for reset are displayed, press the page switch again for about 2 seconds while "CURR: MODE 1/SCENE 1" is displaying on the screen then the screen shown at right on the top appears.

**Note:** Display message of CURR: MODE 1/SCENE 1 is changed by selected mode and scene file for reset.

- (3) If YES is selected by pressing the Up switch within about 10 seconds after this screen is shown, the setup/initial set memory is reset, a message appears as shown at right on the center, and the operation returns to normal state.
- (4) Unless NO is selected by pressing the Down switch within about 10 seconds after the shown in Step (3) above appears, or unless the Up switch or the Down switch is pressed in 10 seconds or more after the screen shown in Step (3) appears, the reset operation is suspended as indicated by the screen at right on the bottom and the operation returns to normal state.

RESET SETUP/INITIAL? (MODE1) YES : UP SW NO : DOWN SW NOW RESET SETUP/INITIAL MEMORY NON RESET

## **USER SETUP MENU SETTING**

## **■ Scene File Memory**

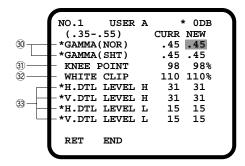
The AW-E560 has five scene file memories, of which three are preset before shipment from the factory. When the scene file menu mode is set to [1], [2], or [3], the camera operates under the preset conditions.

The remaining two, USER A and USER B, can be set as desired.

Each mode is provided with five scene files.

### **■** User Set Screens

<Camera Alone>



### **■** User Setting

- (1) Display the SETUP menu.
- (2) Select the USER A or USER B of scene file from the SETUP menu.
- (3) Move the cursor to USER, and press the page switch. The camera is now in the user set state, and the USER set screen appears on the monitor. User set operation can be performed at the camera head or RCU (RCB).

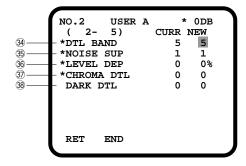
<Camera with RCU (RCB)>

					٠
NO.1	USER	Α	1	* ODB	1
(.35-	.55)		CURR	NEW	
*GAMMA	(NOR)		.45	.45	
*GAMMA	(SHT)		.45	.45	
KNEE	POINT		98	98%	
WHITE	CLIP		110	110%	
*H.DTL	LEVEL	Н	31	31	
*V.DTL	LEVEL	Н	31	31	
*H.DTL	LEVEL	L	15	15	
*V.DTL	LEVEL	L	15	15	
RET					
					1

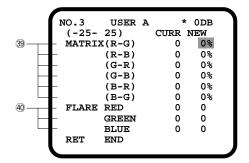
\* Data of those items marked "\*" can be stored in the memory at each of the gain levels (0, 9, 18 dB).

<Camera Alone>

## <Camera with RCU (RCB)>



NO.2 ( 2- *DTL BAJ *NOISE : *LEVEL I *CHROMA DARK D	5) ND SUP DEP DTL	A	CURR 5 1 0 0	* ODE NEW 5 1 0% 0	
RET					



NO.3	USER	A	,	٠ 0	DB	
(-25-	25)		CURR	NE	W	
MATRIX	(R-G)		0		0%	
	(R-B)		0		0%	
	(G-R)		0		0%	
	(G-B)		0		0%	
	(B-R)		0		0%	
	(B-G)		0		0%	
FLARE	RED		0		0	
	GREEN		0		0	
	BLUE		0		0	
RET						

## ③ Gamma Compensation Level Setting [GAMMA (NOR): .35 to .55] [GAMMA (SHT): .35 to .55]

Gamma correction level can be set.
[GAMMA (NOR)] can be set when the electronic shutter is OFF (normal state), or [GAMMA (SHT)] when it is ON.

## ③ Knee Compensation Level Setting [KNEE POINT: 88% to 98%]

The level of video signals subject to knee correction (knee point) can be set.

## White Clip Level Setting [WHITE CLIP: 95% to 110%]

The peak level of video signals to be white-clipped can be set.

## 33 Horizontal Detail High Level Setting: LEVEL HIGH [H. DTL LEVEL H]

Vertical Detail High Level Setting: LEVEL HIGH [V. DTL LEVEL H]

Horizontal Detail Low Level Setting: LEVEL LOW [H. DTL LEVEL L]

Vertical Detail Low Level Setting: LEVEL LOW [V. DTL LEVEL L]

Detail level, high or low, horizontal or vertical, can be set.

The range of detail setting is 0 to 63, provided that HIGH must be set at least 1 level higher than LOW.

## 3 Detail Band Level Setting [DTL BAND: 1 to 5]

The contour correction band at high or low frequencies can be set.

The larger the number, the finer the detail.

## Solution Noise Suppress Compensation Level Setting [NOISE SUP: 0 to 10]

Screen noise can be reduced when high or low detail level is set. If noise suppress correction level is set too high, however, fine detail objects will appear less distinct

## Section 18 Section

Screen noise in the dark parts of an objects if processed by the detail signal can be reduced. If level dependent correction level is set too high, however, fine detail objects like hair, for example, may appear less distinct.

## ③ Chroma Aperture Compensation Level Setting [CHROMA DTL: 0 to 15]

The contours of the highly color saturated part of an object can be emphasized.

## ③ Dark Detail Level Setting [DARK DTL: 0 to 5]

The contours of the dark part of an object can be emphasized.

### Note:

Dark detail setting is invalid unless level dependent correction level [LEVEL DEP] is set to 0.

### 39 Matrix Compensation Level Setting

[MATRIX (R-G): -25% to 25%]

[MATRIX (R-B): -25% to 25%]

[MATRIX (G-R): -25% to 25%]

[MATRIX (G-B): -25% to 25%]

[MATRIX (B-R): -25% to 25%]

[MATRIX (B-G): -25% to 25%]

Matrix compensation level can be adjusted.

(R-G): To increase or decrease the intermediate color between red and magenta

(R-B): To increase or decrease the intermediate color between red and yellow

(G-R): To increase or decrease the intermediate color between green and cyan

(G-B): To increase or decrease yellowish green

(B-R): To increase or decrease the intermediate color between blue and cyan

(B-G): To increase or decrease purple

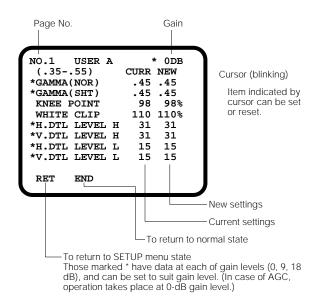
## 40 Flare Compensation Level Setting

[FLARE RED: 0 to 100] [FLARE GREEN: 0 to 100] [FLARE BLUE: 0 to 100]

Flare correction level can be adjusted.

 Flare correction level has already been adjusted prior to shipment from the factory.

#### ■ How to Read Screens



### ■ How to Set

- (1) The screen changes from one page to another each time the page switch is pressed.
- (2) The cursor (blinking) moves each time the item switch is pressed. The item indicated by the cursor can be reset or its command can be executed.
- (3) Use the Up and Down switches to change settings.

- (4) To return to the SETUP menu state, move the cursor to RET and press the page switch.
- (5) To change gain up, move the cursor to GAIN in the SETUP menu, and use the Up or Down switch. (This applies in cases where the camera is used alone.)

### ■ User Set Memory Reset

The AW-E560 has a reset function, which restores the original settings if wrong data is entered in USER SET A or USER SET B setting.

- (1) Switch camera power off, and switch it back on.
- (2) Complete the operation mode/USER file setting and press the page switch. When the new settings for reset are displayed, press the page switch again for about 2 seconds while "CURR: MODE 1/USER A" is displaying on the screen then the screen shown at right on the top appears.
  - (In case of USER B, RESET USER B? appears on the screen.)
- (3) If YES is selected by pressing the Up switch within about 10 seconds after the screen shown in Step (2) appears, the user set memory is reset, a message appears as shown at right, and the operation returns to normal state.
  - (In case of USER B, NOW RESET USER B MEMORY appears on the screen.)

(6) To return to the normal state, do the following steps. If the camera is used alone, move the cursor to END, and press the page switch.

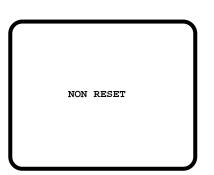
If the camera is used with an RCU (RCB), set the user set switch to OFF.

The camera will then operate according to the settings.

RESET USER A?
(MODE1)
YES: UP SW
NO: DOWN SW

NO: DOWN SW

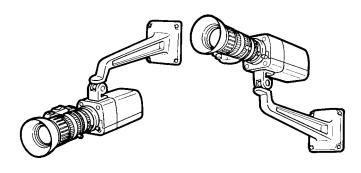
(4) Unless NO is selected by pressing the Down (DOWN/BAR) switch within about 10 seconds after the screen shown in Step (2) above appears, or unless the Up (UP/ABC) switch or the Down (DOWN/BAR) switch is pressed in 10 seconds or more after the screen shown in Step (2) appears, the reset operation is suspended as indicated by the screen at right, and the operation returns to normal state.



## **CAMERA INSTALLATION**

The camera can be mounted using the mounting hole on top or the one in the bottom of the camera as shown below.

The mounting hole has a standard 1/4-20" thread designed for pan-head screws, such as those used on tripods.



### Caution:

If this camera will be mounted on a tripod or mounting bracket, Each must be capable of supporting four times the total weight of the camera.

## **CAMERA ID SETTING**

### **■** Camera ID

The AW-E560 has a camera ID function, which enables you to mix the set characters with video output.

The maximum number of characters that can be set is 16. Camera ID and display position are the same in all modes.

## **■** Camera ID Setting

- (1) Select the page No. 5 of the INITIAL SET menu.
- (2) Move the cursor to CAMERA ID, and press the page switch for 2 seconds or more.

The camera is ready for ID setting, and its screen appears on the monitor.

Camera ID can be set at the camera head or RCU (RCB).

■ Camera ID Set Screen <Camera Alone>

\*\* CAMERA ID \*\*

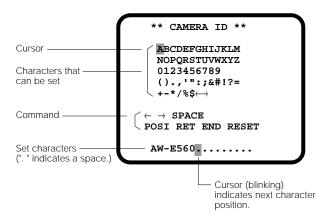
ABCDEFGHIJKLM
NOPQRSTUVWXYZ
0123456789
().,'":;&#!?=
+-\*/%\$

\( \rightarrow \) SPACE
POSI RET END RESET

AW-E560.....

<Camera with RCU (RCB)>

### ■ How to Read Screens



### ■ Camera ID Setting

- (1) Display the page No.5 of the INITIAL SET menu.
- (2) Move the cursor to CAMERA ID, and press the page switch for more than 2 seconds to display the camera ID setting mode.

#### ■ How to Set

 Move the cursor (blinking) using the item switch, Up switch, or Down switch, and select characters or a command to set Item switch: To move the cursor 1 line down
Up switch: To move the cursor 1 position left
Down switch: To move the cursor 1 position right

$$\begin{array}{ccc} \mathsf{UP}\,\mathsf{SW} & \longleftarrow & \to & \mathsf{DOWN}\,\mathsf{SW} \\ \downarrow & & \downarrow & \\ \mathsf{ITFM}\,\mathsf{SW} & & \end{array}$$

- (2) To enter a character for camera ID, press the page switch when the cursor is on the desired character. The character is set, and is shown on the bottom line of the screen.
- (3) If the page switch is pressed when the cursor is at ←, the cursor moves from the set character to one position left.
- (4) If the page switch is pressed when the cursor is at →, the cursor moves from the set character to one position right.
- (5) If the page switch is pressed when the cursor is at SPACE, a blank is left.
- (6) If the page switch is pressed when the cursor is at POSI, camera ID display position is ready to be set.
- (7) If the page switch is pressed when the cursor is at RESET, all the set characters are erased.
- (8) To return to the INITIAL SET menu state, move the cursor to RET and press the page switch.
- (9) To return to the normal state, do the following steps. If the camera is used alone, move the cursor to END, and press the page switch. If the camera is used with an RCU (RCB), set the user set switch to OFF.

### ■ Camera ID Display Position

Camera ID display position can be set as desired.

### ■ Camera ID Display Position Setting

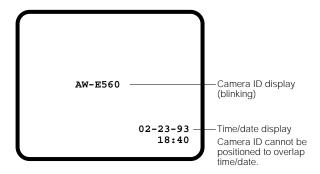
- (1) Set a camera ID.
- (2) Move the cursor to POSI, and press the page switch. Camera ID display position is ready to be set, and its screen appears on the monitor.

Camera ID display position can be set at the camera head or RCU (RCB).

### Note:

Unless a camera ID has been set, camera ID display position will not be ready for setting.

#### ■ Camera ID Position Set Screen



#### ■ How to Set

position.

Move the set camera ID using the item switch, Up switch, or Down switch.

Item switch: To move the cursor 1 line down with each press

Up switch: To move the cursor 1 position left with

each press

Down switch: To move the cursor 1 position right with each press

$$\begin{array}{ccc} \mathsf{UP}\,\mathsf{SW} & \leftarrow & \rightarrow & \mathsf{DOWN}\,\mathsf{SW} \\ & \downarrow & & \\ & \mathsf{ITEM}\,\mathsf{SW} \end{array}$$

If the item switch is pressed when the cursor is at the bottom line, the cursor moves to the top line. Even if the Up switch is pressed when the camera ID is at the far left end, its position will not change. Even if the Down switch is pressed when the camera ID is at the far right end, its position will not change. If the camera ID is positioned over time/date display using the item switch, it moves 1 line below time/date. If the camera ID is positioned over time/date display using the Up/Down switch, no change is made in its

- (2) To return to the camera ID set screen, press the page switch.
- (3) When the camera is used alone, it cannot directly return to the normal state. If the camera is used with an RCU (RCB), set the user set switch to OFF.

## **TIME/DATE SETTING**

## **■ Time/Date Setting**

The AW-E560 has a time/date function, which enables you to mix year/month/day/hours/minutes with video output. Time/date display position is the same in all modes.

#### ■ Time/Date Set Screen

<Camera Alone>

\*\* TIME DATE \*\*

ITEM ....SHIFT
UP ....SET

02-23-93
18:40

POSI RET END

- (1) Display the page No. 5 of the INITIAL SET menu.
- (2) Move the cursor to TIME DATE, and press the page switch for 2 seconds or more.

The camera is ready for time/date setting, and its screen appears on the monitor.

Time/date can be set at the camera head or RCU (RCB).

<Camera with RCU (RCB)>

\*\* TIME DATE \*\*

ITEM ....SHIFT
UP ....SET

02-23-93
18:40

POSI RET

#### ■ How to Set

es rapidly.)

- Select the date and time positions to change, or a command, using the item switch.
- (2) To change time/date, use the Up switch. The set value increases each time the Up switch is pressed. Stop pressing it when the desired figure appears. (If the Up switch is kept depressed, the figure increas-
- (3) If the page switch is pressed when the cursor is at POSI, time/date display position is ready to be set.
- (4) To return to the INITIAL SET menu screen, move the cursor to RET, and press the page switch.
- (5) To return to the normal state, do the following steps. If the camera is used alone, move the cursor to END, and press the page switch. If the camera is used with an RCU (RCB), set the user set switch to OFF.

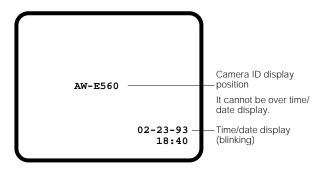
### **■** Time/Date Display Position

Time/date display position can be set as desired.

## ■ Time/Date Display Position Setting

- (1) Set time/date.
- (2) Move the cursor to POSI, and press the page switch. Time/date display position is ready to be set, and its screen appears on the monitor. Time/date display position can be set at the camera head or RCU (RCB).

### ■ Time/Date Display Position Set Screen



### ■ How to Set

(1) Move the set time/date display position using the item switch, Up switch, or Down switch.

Item switch: To move the cursor 1 line down
Up switch: To move the cursor 1 position left
Down switch: To move the cursor 1 position right

$$\begin{array}{ccc} \mathsf{UP}\,\mathsf{SW} & \leftarrow & \rightarrow & \mathsf{DOWN}\,\mathsf{SW} \\ & \downarrow & \\ & \mathsf{ITFM}\,\mathsf{SW} \end{array}$$

## RANGE OF SETUP/INITIAL SET AND THEIR INITIAL VALUES

	PURPOSE	INDOOR	INDOOR and OUTDOOR	MICROSCOPE	VIDEO PROCESSING
	ITEM	MODE1	MODE2	MODE3	MODE4
	GAIN	0dB	AGC HIGH	AGC LOW	0dB
	IRIS	AUTO	AUTO	MANU	MANU
SETUP MENU	SHUTTER	OFF	ELC	ELC	OFF
JETUF WILING	WHITE BAL	Ach	Ach	Ach	Ach
	DTL LEVEL	LOW	LOW	LOW	LOW
	SCENE FILE	SCENE1	SCENE1	SCENE1	SCENE1
	R GAIN	CENTER	CENTER	CENTER	CENTER
	B GAIN	CENTER	CENTER	CENTER	CENTER
INITIAL SET	T PED	CENTER	CENTER	CENTER	CENTER
PAGE 1	R PED	CENTER	CENTER	CENTER	CENTER
	B PED	CENTER	CENTER	CENTER	CENTER
	PAINTING	OFF	OFF	OFF	OFF
	LEVEL	CENTER	CENTER	CENTER	CENTER
INITIAL SET	AREA	TOP CUT	ALL	CENTER	ALL
PAGE 2	PEAK/AVG	CENTER	CENTER	CENTER	CENTER
	AUTO IRIS	ADJ OFF	ADJ OFF	ADJ OFF	ADJ OFF
	SYNCHRO-SCAN	253/525	253/525	253/525	253/525
INITIAL SET	FLD/FRM	FIELD	FIELD	FIELD	FIELD
PAGE 3	GAMMA	ON	ON	ON	ON
FAGL 3	2D LPF	OFF	OFF	OFF	OFF
	COLOR BAR	2	2	2	2
INITIAL SET	H PHASE	CENTER	CENTER	CENTER	CENTER
PAGE 4	SC COARSE	0°	0°	0°	0°
I AGE 4	SC FINE	CENTER	CENTER	CENTER	CENTER
	OUTPUT SEL 1	Y/PR/PB	Y/C	R/G/B	R/G/B
INITIAL SET	OUTPUT SEL 2	COMPOSITE	COMPOSITE	Y/C	Y/C
PAGE 5	SYNC SEL	0.3V	0.3V	0.3V	0.3V
IAGES	CAMERA ID	OFF	OFF	OFF	OFF
	TIME DATE	OFF	OFF	OFF	OFF

## RANGE OF SCENE FILE/USER SET AND THEIR INITIAL VALUES SCENE/USER FILE AND THEIR INITIAL VALUE (MODE1:)

ITEM	SCENI	E 1		SCEN	E 2		SCEN	E 3		USER	A		USER	В	
	0dB	9dB	18dB	0dB	9dB	18dB	0dB	9dB	18dB	0dB	9dB	18dB	0dB	9dB	18dB
GAMMA (NOR)	0.40	<b>←</b>	0.45	0.40	<b>←</b>	0.45	0.40	$\leftarrow$	0.45	0.40	$\leftarrow$	0.45	0.40	<b>←</b>	0.45
GAMMA (SHT)	0.40	<b>←</b>	0.45	0.40	<b>←</b>	0.45	0.40	<b>←</b>	0.45	0.40	$\leftarrow$	0.45	0.40	<b>←</b>	0.45
KNEE POINT	88			<b>←</b>			<b>←</b>			<b>←</b>			<b>←</b>		
WHITE CLIP	110			$\leftarrow$			<b>←</b>			<b>←</b>			$\leftarrow$		
H DTL LEVEL H	31	<b>←</b>	20	31	<b>←</b>	20	31	$\leftarrow$	20	31	$\leftarrow$	20	31	<b>←</b>	20
V DTL LEVEL H	31	<b>←</b>	20	31	<b>←</b>	20	31	$\leftarrow$	20	31	$\leftarrow$	20	31	<b>←</b>	20
H DTL LEVEL L	15	<b>←</b>	10	15	<b>←</b>	10	15	$\leftarrow$	10	15	$\leftarrow$	10	15	<b>←</b>	10
V DTL LEVEL L	15	<b></b>	10	15	<b>←</b>	10	15	$\leftarrow$	10	15	$\leftarrow$	10	15	<b>←</b>	10
DTL BAND	1	$\leftarrow$	←	$\leftarrow$	<b>←</b>	←	$\leftarrow$	$\leftarrow$	<b>←</b>	$\rightarrow$	$\leftarrow$	←	$\leftarrow$	<b>←</b>	←
NOISE SUP	1	<b>←</b>	2	1	<b>←</b>	2	1	$\leftarrow$	2	1	$\leftarrow$	2	1	<b>←</b>	2
LEVEL DEP	0	<b>←</b>	5	0	<b>←</b>	5	0	$\leftarrow$	5	0	$\leftarrow$	5	0	<b>←</b>	5
CHROMA DTL	0	<b>←</b>	<b>←</b>	9	<b>←</b>	<b>←</b>	0	$\leftarrow$	<b>←</b>	9	$\leftarrow$	<b>←</b>	0	<b>←</b>	<b>←</b>
DARK DTL	0			2			0			2			0		
MATRIX (R-G)	0			-15			0			-15			0		
(R-B)	0			-3			0			-3			0		
(G-R)	0			-3			0			-3			0		
(G-B)	0			-3			0			-3			0		
(B-R)	0			-3			0			-3			0		
(B-G)	0			-3			0			-3			0		
FLARE R															
G															
В															
Remarks	Standard Chroma High				Back Comp	light ensatio	n	Back light Compensation, Chroma High			Standard				

## SCENE/USER FILE AND THEIR INITIAL VALUE (MODE2:)

ITEM	SCEN	E 1		SCEN	E 2		SCEN	E 3		USER	Α		USER	В	
	0dB	9dB	18dB	0dB	9dB	18dB	0dB	9dB	18dB	0dB	9dB	18dB	0dB	9dB	18dB
GAMMA (NOR)	0.45	<b>←</b>	0.55	0.45	<b>←</b>	0.55	0.35	<b>←</b>	0.45	0.45	<b>←</b>	0.55	0.45	<b>←</b>	0.55
GAMMA (SHT)	0.45	←	0.55	0.45	←	0.55	0.35	←	0.45	0.45	<b>←</b>	0.55	0.45	←	0.55
KNEE POINT	88			$\leftarrow$			<b>←</b>			<b>←</b>			<b>←</b>		
WHITE CLIP	110			$\leftarrow$			<b>←</b>			<b>←</b>			<b>←</b>		
H DTL LEVEL H	31	<b>←</b>	20	31	<b>←</b>	20	31	<b>←</b>	20	31	<b>←</b>	20	31	<b>←</b>	20
V DTL LEVEL H	31	<b>←</b>	20	31	<b>←</b>	20	31	<b>←</b>	20	31	<b>←</b>	20	31	<b>←</b>	20
H DTL LEVEL L	15	<b>←</b>	10	15	<b>←</b>	10	15	<b>←</b>	10	15	<b>←</b>	10	15	<b>←</b>	10
V DTL LEVEL L	15	<b>←</b>	10	15	<b>←</b>	10	15	$\leftarrow$	10	15	<b>←</b>	10	15	<b>←</b>	10
DTL BAND	1	<b>←</b>	<b>←</b>	$\leftarrow$	<b>←</b>	<b>←</b>	<b>←</b>	<b>←</b>	<b>←</b>	<b>←</b>	<b>←</b>	<b>←</b>	<b>←</b>	<b>←</b>	<b>←</b>
NOISE SUP	1	2	4	1	2	4	1	2	4	1	2	4	1	2	4
LEVEL DEP	0	15	5	0	15	5	0	15	5	0	15	5	0	15	5
CHROMA DTL	0	<b>←</b>	<b>←</b>	$\leftarrow$	<b>←</b>	<b>←</b>	<b>←</b>	<b>←</b>	<b>←</b>	<b>←</b>	<b>←</b>	<b>←</b>	<b>←</b>	<b>←</b>	<b>←</b>
DARK DTL	0			0			0			0			0		
MATRIX (R-G)	0			$\leftarrow$			<b>←</b>			<b>←</b>			<b>←</b>		
(R-B)	0			-20			0			<b>←</b>			<b>←</b>		
(G-R)	0			4			0			<b>←</b>			<b>←</b>		
(G-B)	0			$\leftarrow$			<b>←</b>			<b>←</b>			<b>←</b>		
(B-R)	0			$\leftarrow$			<b>←</b>			<b>←</b>			<b>←</b>		
(B-G)	0			←			←			<b>←</b>			<b>←</b>		
FLARE R															
G															
В															
Remarks	Standard			Under fluores- cent light			Low light			Standard			Standard		

## SCENE/USER FILE INITIAL VALUE (MODE3:)

ITEM	SCEN	E 1		SCEN	E 2		SCEN	E 3		USER	Α		USER	В	
	0dB	9dB	18dB	0dB	9dB	18dB	0dB	9dB	18dB	0dB	9dB	18dB	0dB	9dB	18dB
GAMMA (NOR)	0.40	<b>←</b>	←	<b>←</b>	←	←	<b>←</b>	<b>←</b>	←	<b>←</b>	←	<b>←</b>	<b>←</b>	←	<b>←</b>
GAMMA (SHT)	0.40	←	←	←	←	←	<b>←</b>	<b>←</b>	←	←	←	<b>←</b>	←	←	<b>←</b>
KNEE POINT	88	'	'	←		•	<b>←</b>			<b>←</b>		'	←	'	'
WHITE CLIP	110	110					<b>←</b>			<b>←</b>			<b>←</b>		
H DTL LEVEL H	31	<b>←</b>	<b>←</b>	<b>←</b>	$\leftarrow$	<b>←</b>	<b>←</b>	$\leftarrow$	<b>←</b>	<b>←</b>	<b>←</b>	<b>←</b>	<b>←</b>	<b>←</b>	<b>←</b>
V DTL LEVEL H	31	<b>←</b>	<b>←</b>	<b>←</b>	<b>←</b>	<b>←</b>	<b>←</b>	$\leftarrow$	<b>←</b>	<b>←</b>	<b>←</b>	<b>←</b>	<b>←</b>	<b>←</b>	<b>←</b>
H DTL LEVEL L	15	←	←	←	←	←	←	$\leftarrow$	←	←	←	←	←	←	←
V DTL LEVEL L	15	←	←	$\leftarrow$	<b>←</b>	←	<b>←</b>	$\leftarrow$	←	←	←	←	$\leftarrow$	←	<b>←</b>
DTL BAND	1	←	←	$\leftarrow$	$\leftarrow$	←	$\leftarrow$	$\leftarrow$	←	←	←	←	$\leftarrow$	←	←
NOISE SUP	0	←	←	←	←	←	←	$\leftarrow$	←	←	←	←	←	←	←
LEVEL DEP	0	←	←	$\leftarrow$	$\leftarrow$	←	$\leftarrow$	$\leftarrow$	←	←	←	<b>←</b>	←	←	<b>←</b>
CHROMA DTL	0	←	←	10	$\leftarrow$	←	0	$\leftarrow$	←	←	←	←	$\leftarrow$	←	<b>←</b>
DARK DTL	0			0		0			0			$\leftarrow$			
MATRIX (R-G)	0			-8			-23			0			←		
(R-B)	0			-5			-22			0			<b>←</b>		
(G-R)	0			-14			25			0			$\leftarrow$		
(G-B)	0			10			0			0			$\leftarrow$		
(B-R)	0			-5			-25			0			$\leftarrow$		
(B-G)	0			-20			-25			0			←		
FLARE R															
G															
В															
Remarks	Stand for pri	ard Out nter	put	Output for Panasonic Monitor			Output for Another monitor			Standard Output for printer			Standard Output for printer		

## SCENE/USER FILE AND THEIR INITIAL VALUE (MODE4:)

ITEM	SCENI	E 1		SCEN	E 2		SCEN	E 3		USER	Α		USER	В	
	0dB	9dB	18dB	0dB	9dB	18dB	0dB	9dB	18dB	0dB	9dB	18dB	0dB	9dB	18dB
GAMMA (NOR)	0.45	<b>←</b>	0.55	0.45	<b>←</b>	0.55	0.45	←	0.55	0.45	<b>←</b>	0.55	0.45	←	0.55
GAMMA (SHT)	0.45	<b>←</b>	0.55	0.45	<b>←</b>	0.55	0.45	←	0.55	0.45	<b>←</b>	0.55	0.45	←	0.55
KNEE POINT	88			<b>←</b>			<b>←</b>			←			<b>←</b>		
WHITE CLIP	110			$\leftarrow$			<b>←</b>			<b>←</b>			<b>←</b>		
H DTL LEVEL H	31	<b>←</b>	20	31	<b>←</b>	20	31	<b>←</b>	20	31	<b>←</b>	20	31	<b>←</b>	20
V DTL LEVEL H	31	<b>←</b>	20	31	<b>←</b>	20	31	<b>←</b>	20	31	<b>←</b>	20	31	<b>←</b>	20
H DTL LEVEL L	15	<b>←</b>	10	15	<b>←</b>	10	15	<b>←</b>	10	15	<b>←</b>	10	15	<b>←</b>	10
V DTL LEVEL L	15	<b>←</b>	10	15	<b>←</b>	10	15	$\leftarrow$	10	15	<b>←</b>	10	15	<b>←</b>	10
DTL BAND	1	←	←	5	←	←	1	←	←	←	<b>←</b>	←	<b>←</b>	←	←
NOISE SUP	0	<b>←</b>	<b>←</b>	<b>←</b>	<b>←</b>	<b>←</b>	<b>←</b>	<b>←</b>	<b>←</b>	<b>←</b>	<b>←</b>	<b>←</b>	<b>←</b>	<b>←</b>	<b>←</b>
LEVEL DEP	0	<b>←</b>	←	←	←	←	←	←	<b>←</b>	<b>←</b>	<b>←</b>	←	<b>←</b>	<b>←</b>	<b>←</b>
CHROMA DTL	15	<b>←</b>	←	←	<b>←</b>	←	0	←	←	15	<b>←</b>	<b>←</b>	<b>←</b>	←	<b>←</b>
DARK DTL	5			5		0		5			5				
MATRIX (R-G)	0	-		$\leftarrow$			<b>←</b>			<b>←</b>			<b>←</b>		
(R-B)	0			←			<b>←</b>			<b>←</b>			<b>←</b>		
(G-R)	0			$\leftarrow$			<b>←</b>			<b>←</b>			<b>←</b>		
(G-B)	0			$\leftarrow$			<b>←</b>			<b>←</b>			<b>←</b>		
(B-R)	0			$\leftarrow$			<b>←</b>			<b>←</b>			<b>←</b>		
(B-G)	0			$\leftarrow$			<b>←</b>			<b>←</b>			<b>←</b>		
FLARE R															
G															
В															
Remarks	Image	e Captur	ing	Image Capturing Detail High			Chroma detail off Dark Detail off			Image Capturing			Image Capturing		

## **SPECIFICATIONS**

Pickup element 1/2" interline, supersensitive CCD

Pixels 768 (H) x 494 (V) pixels

Scanning 2:1 interlace System NTSC

Scanning frequency 15.734 kHz (horizontal), 59.94 Hz (vertical)

Lens mount 1/2" standard bayonet mount

Synchronizing Internal or external External sync input VBS, BB, HD, VD Sensitivity 2000 lux, F9.5, 3200 K Minimum illumination 5 lux, F1.4, +18 dB

Signal-to-noise ratio 62 dB (typical)

Horizontal resolution 800 TV lines (high band, DTL ON)

Registration 0.05%

Contour correction Horizontal and vertical

White balance Auto (2 memories), 3200 K/5600 K, MANU, ATW

Black balance AUTO

Color bar SMPTE, full color bar (Setup 0/7.5)

Encoder Y, R-Y, B-Y

Shutter speed 1/100, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000, MANU (1/15000 to 1/62)

Gain 0 dB, 9 dB, 18 dB, AGC Gamma correction ON/OFF switchable Storage mode Field/frame switchable

Iris AUTO, ELC

Video output Composite: 1 Vp-p (75  $\Omega$ )

R/B/G: 0.7 Vp-p (75  $\Omega$ )

Y: 1 Vp-p (75 Ω)

C: Same as VBS chroma level (75  $\Omega$ )

PR: 0.7 Vp-p (75  $\Omega$ ) PB: 0.7 Vp-p (75  $\Omega$ )

Sync: 4 V/0.3 V (75  $\Omega$ ) switchable

Source voltage 12 V DC Power consumption 12.0 W

Operating temperature 14°F to +113°F (-10°C to +45°C) Storage temperature 4°F to +140°F (-20°C to +60°C)

Dimensions 3-3/16" (W) x 3-3/8" (H) x 6-5/8" (D) [81 (W) x 86 (H) x 169 (D) mm]

Weight 2.64 lbs. (1.2 kg)

Weight and dimensions indicated are approximate. Specifications are subject to change without notice.

## STANDARD ACCESSORIES

Body cap	•
4 pin connector for EXT DC IN	-

## **OPTIONAL ACCESSORIES**

Multiplex Adaptor WV-PS550
Remote Control Unit (RCU) WV-RC550
Remote Control Unit (RCU) WV-RC700A
Remote Control Box (RCB) WV-CB700A
RCU Rack Mount Frame WV-Q70
Computer Interface Adaptor WJ-PC500

Lens Extension Cable

WV-CA12T12 (12-pin - 12-pin, approx. 6"/15 cm)

Conversion Cable (for WV-CB700A)

WV-CA20T10 (20-pin - 10-pin, approx. 3ft/1m)

Conversion Cable (for WV-RC700A)

WV-CA26T20 (26-pin - 20-pin, approx. 10ft/3m)

Connection Cable (Dsub-Dsub)

WV-CA9T9 (9-pin - 9-pin, approx. 16ft/5m) Conversion Cable (for AG-B640 or AU-B110)

WV-CA4C4P

Connection Cable (Dsub-BNC)

WV-CA9T5 (9-pin - BNC, approx. 16ft/5m)

Studio Cable (for WV-RC700A)

WV-CA26U15 (26-pin - 26-pin, approx. 50ft/15m)
WV-CA26U30 (26-pin - 26-pin, approx. 100ft/30m)

WV-CA26U100 (26-pin - 26-pin, approx. 330ft/100m)

Joint Connector WV-CA26T26 (26-pin - 26-pin))

RCB Cable (for WV-CB700A)

WV-CA10B25 (10-pin - 10-pin, approx. 80ft/25m) WV-CA10B50 (10-pin - 10-pin, approx. 160ft/50m)

Mounting Bracket WV-831

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